Temperature detection device

CLAIMS

1. Temperature detection device for an electronic circuit, comprising the following:

- a temperature detector, which at its output makes available a voltage (V_t) that is a predetermined function of the temperature;

- an analog-to-digital converter (14), to the input of which the temperature-dependent voltage (V_t) is applied; and

- a standardized serial bus (16), to which the output of the analog-to-digital converter (14) is coupled.

2. Temperature detection device according to Claim 1, characterized in that the temperature detector consists of a voltage divider comprising a temperature sensor (10) and a resistance element (12).

3. Temperature detection device according to Claim 2, characterized in that the temperature sensor (10) is a barretter (PCT resistor) or a high-temperature thermistor (NTC).

4. Temperature detection device according to one of the claims 1 to 3,
characterized in that the standardized serial bus is an I^2C bus or a 3-wire bus.

5. Temperature detection device according to one of the claims 1 to 4,
characterized in that the temperature detection device is provided for a HF tuner.

6. Temperature detection device according to Claim 5,
characterized in that the analog-to-digital converter (14) is part of an integrated PLL circuit of the HF tuner.